

IN THE CLAIMS

1-53. (Cancelled)

54. (New) A method of detecting cancer, comprising:
measuring the presence of oncogenic activity in a cell or cells of a patient,
comprising:
providing substrate molecules for an oncoprotein containing a label, the
labeled substrate molecules corresponding to chemical reactions whose activities are to
be measured;
disposing said substrate molecules within said cell or cells;
allowing said substrate molecules within said cell or cells to take part in
the chemical reactions to produce altered substrate molecules;
liberating said substrate molecules and said altered substrate molecules
from the single cell;
detecting the label to identify the substrate molecules and/or the altered
substrate molecules from said cell or cells; and
determining the presence of said chemical reaction from the presence of
modified substrate molecules.

55. (New) The method of claim 54, wherein the cancer is chronic
myelogenous leukemia.

56. (New) The method of claim 54 further comprising quantifying the amounts
of detected altered substrate molecules and/or detected unaltered substrate molecules.

57. (New) The method of claim 56, wherein the cancer is chronic
myelogenous leukemia.

58. (New) A method of testing a compound for anticancer activity, comprising:
exposing a cancerous cell or cells to the compound; and

measuring the presence of oncogenic activity in the cell or cells comprising:

- providing substrate molecules for an oncoprotein containing a label, the labeled substrate molecules corresponding to chemical reactions whose activities are to be measured;
- disposing said substrate molecules within said cell or cells;
- allowing said substrate molecules within said cell or cells to take part in the chemical reactions to produce altered substrate molecules;
- liberating said substrate molecules and said altered substrate molecules from the single cell;
- detecting the label to identify the substrate molecules and/or the altered substrate molecules from said cell or cells; and
- determining the presence of said chemical reaction from the presence of modified substrate molecules.

59. (New) The method of claim 58, wherein the cancerous cell or cells are chronic myelogenous leukemia cells.

60. (New) The method of claim 58 further comprising quantifying the amounts of detected altered substrate molecules and/or detected unaltered substrate molecules.

61. (New) The method of claim 60, wherein the cancerous cell or cells are chronic myelogenous leukemia cells.